PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,674A

DATE: 02/11/2003 TIME: 14:28:44

Input Set : A:\pf0539usn_subseqlist.txt
Cutrut Set: N:\CRF4\02112003\I701674A.raw

```
1 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.; LAL, Preeti;
              YUE, Herry; TANG, Y. Iom;
              HILLMAN, Jennifer L.; BANDMAN, Olga;
              CORLEY, Neil C.; GUEGLEL, Karl J.;
              GCEGONE, Gina A.; BAUGHN, Mariah R.;
              PATTERSON, Chandra; LU, Dyung Aina M.
      8 <1200 TITLE OF INVENTION: PROTEINS REGULATING GENE EXPRESSION
     10 <130> FILE REFERENCE: PF-0539 USN
     12 <140> CURRENT APPLICATION NUMBER: US 09/701,674A
C--> 13 <141> CURRENT FILING DATE: 2002-11-14
     15 <150% PFIOR APPLICATION NUMBER: PCT/US99/13281
     15 K151 / PETOK FILING DATE: 1999-06-11
     18 - C15CA PEROK APPLICATION NUMBER: US 60/104,624
     1 * 111 PRION PHING DATE: 1998-10-14
              Person Affill William 1 Milliam 1 1 1 5
         101 FRIOR FILING DAIR: 1998-01-24
       - 150 PEIOR APELICATION NUMBER: UB 60/089,029
                                                                ENTERED
     25 K1519 FRIOR FILING DAIE: 1098-06-12
     27 <1600 NUMBER OF SEQ ID NOS: 62
     23 /1701 SOFTWARE: PERL Program
     30 <210% SEQ 10 NO: 1
     31 <211> LENGTH: 379
     32 ×212: TYPF: PRT
     33 <213> ORGANISM: Homo sapiens
     35 4220 FEATURE:
     36 <2210 NAME/KEY: musc feature
     37 KZ23. OTHER INFORMATION: Incyte ID No: 091290
     39 4400 - SEQUENCE: 3
     40 Met Val the Phe Thr Gys Ash A a Cys Jly Glu Ser Val Lys Lys
        The sum that state the file Wal Deer Man Dyn Ard Ash Hys end Syd
                         3.0
                                              25
                        Approperative type Approximation Title Title Approximation Type
                                              4-1
     An Tys Ash His Val Ise Cyr To Fer Win Asp Cir Lys Tyr Gly Gly
                                              y in the first series
     Z Q
     by Ala Crp 11: Sin Liz The Jor Giu Let I.a Ligh Arg Pro Ash Val
                            rought terminate the new Ata The Ark
     La Jer Fre Lyd Wal Arg
                                              1016
                                                                  3 ( )
```

54 Asn Val Pro Arg Lys Lys Ala Lys Phe Gln Asn Trp Met Lys Asn

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input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

```
56 Sor Lou Lys Val His Ash Glu Ser Ile len Asp Gln Val Trp Ash
                                         130
                   1.15
57
58 Ile Phe Ser Glu Ala Ser Asn Ser Glu Pro Val Asn Lys Glu Cin
                                                              150
                                         145
                   140
54
60 Asp Cln Ard Pro Len His Pro Val Ala Ash Pro His Ala Glu
                                         100
61
67 Ser Thr Lys Val Pro Ala Ser Lys Val Lys Asp Ala Val Glu o'n
                                         17.5
6.5
64 Gln Gly Glu Val Lyz Lys Asn Lys Arg G u Lys Lys Glu Glu Arg
                                         190
66 Glm Lys Lys Arg Lys Arg Glu Lys Lys G.L Leu Lys Leu Glu Asn
                                                               1.0
                    200
60 His Gln Glu Asn Ser Arg Asn Gln Lys Pro Lys Lys Arg Lys
70 Gly Gln Glu Ala A.p Leu Glu Ala Gly Gly Glu Glu Val Pro Glu
7.
                    2.0
7. Ala Asn Gly Ser Ala Gly Lys Arg Ser Lys Lys Lys Gln Arg
                   246
                                                              ( L) E
                                         2.50
7 :
74 Lys App Ser Ala 3er Glu Glu Glu Ala Arg Val Gly Ala Gly bys
                                                               : · · · C
                                         265
                   300
76 Arg Lys Arg Arg H.. Ser Giù Val Glu Thr Asp Ser Lys Lys
   or Amp (in Ala Pro Air Lys Gly Lys Fle Aim Fry Lis Gly Thr
                                         3]()
                                                              .75
BE Lys Ala He Leu Lys Gln Ala Pro Asp Asn Glu He Thr He
                                         3.35
                                                               3 3 (1
3: Lys Lou Arg Lys Lys Val Leu Ala Gln Tyr Tyr Thr Val Thr Asp
                                         340
                                                               3.15.
+6 G.u Eis His Arg Ser Glu Glu Glu Leu Leu Val Ile Phe Asn
                                                              ''al
RA Lys Ile Ser Lys Am Pro Thr Phe Lys Lau Leu Lys Asp Lys
                                         370
33
                    3.55
94 Lys Leu Val Lys
93 < 310> SEQ ID NO:
9: <2313 DENOTH: 130
  SALIN THE PART
Artik (Birlin Barwalki, Birlin Birlin Bartik) (Birlin Bartik)
9: KIZON FEATURE:
4+ 5,121 - NAMEZKEY: m.sc foatale
100 <723 OTHER INFORMATION: Indyte ID No: 815856
102 -400 DEQUENCE:
lis Met the dly thr ero dan did His Arq Ast Met Fro Jan Ald Asp
195 Ala Met Val Leu Val Ara Arg Ash Tyr Eid Arg Lyr Lys Ash e.W
                      20
107 Cys Ara Din Lys Sin Ara Sin Glu Ilo Ala Ard Gin Ala Ala Lys
```

RAW SEQUENCE LISTING

FATENT APPLICATION: US/09/701,674A TIME: 14:28:44

DATE: 02/11/2003

Input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\1701674A.raw

```
₹5
 100
 109 Mat Ala Asp Glu Ala Ile Leu Gln Glu Arg Glu Arg Gly Gly Pro
                      50
 111 Glu Glu Gly Val Ard Gly Gly His Pro Pro Ala Ile Gln Ser Leu
                      €5
                                           70
 11.
till the Ash Lew Ala Asp Ash Arg Tyr Lew Thr Ala Glu Glu Thr
                      33
                                           80
 11: Asp Lys Ile Ile Asr. Tyr Leu Arg Glu Arg Lys Glu Arg Leu Met
- 114
                      Ģ.,
 117 Arg Ser Ser Thr Asp Ser Leu Pro Gly Glo Leu Arg Gly Arg Ala
 11:
                     110
                                          115
 114 Glu Ala Ard Phe Pro Ala Asn His Ser Gly Ard Pro Ard Val Pro
 1.2
                                          130
 1.11 Arg
 1.4 4210> SEQ ID NO: 3
 1.55 <211> LENGTH: 230
 1.36 <212> TYPE: PRT
 1.33 <213> ORGANISM: Homo sapiens
 1.: + <220> FEATURE:
 130 <221> NAME, KEY: misc feature
 1 (1 4223) OTHER INFORMATION: Incyte 1D No: 996552
 1 + + < 400 > SEQUENCE: 3
 1 of Men Sor Sor Sor Tyr Tyr Val Ash Ala Lea Pho Sor Sys Tyr
 The Aladay Alader Louister Winder Alader His City Sec
 1 1
                                           21 %
 135 Phe Ala Pro Asn Ser Gln Arg Ser Gly Tyr Giy Ala Gly Ala Gly
                                           4
 140 Ala The Ala Ser Thr Val Pro Gly Leu Tyr Ash Val Ash Ser Pro
                      € €
                                           55
     Leu Tyr Gln Ser Pro Phe Ala Ser Gly Tyr Gly Leu Gly Ala Asp
                                           7.5
                                                                73
                      6.5
 145
 144 Ala Tyr Gly Asn Leu Fro Cys Ala Ser Tyr Asp Gln Asn lle Pro
                      8 (1
                                           85
 146 Gly Leu Cys Ser Asp Leu Ala Lys Gly Ala Cys Asp Lys Thr Asp
                                          100
                                                               1 15
 143 Glu Gly Ala Leu His Gly Ala Ala Glu Ala Asn Fhe Arg Ile Tyr
 143
                     110
                                          115
      re imp Mot And Ser Ser Gly Pro Asp And Tys And Gly And Sin
 15% Thr Tyr Thr Ang Tyr Gin Thr Les Glo Des Glo Lys Glo Pho His
                                                               16.17
 154 Phe Ash Ara Tvr Leu Ile Ara Ara Ara Ara Ile Glu Ile Ala His
                      1 6 6
                                          160
                                                               1 (15)
                                          liya ile Trp the Jan Add
 ion Analesa lys ima Threia And Sin ile
 15) And And Met Lys Trp Lys Lys Glu H.s Lys Asposlu Giv incom
 15.3
                                          190
                     195
 160 Ala Ala Ala Ala Pre Glu Gly Ala Val Pro Ser Ala Ala Ala Thr
```

DATE: 02/11/2003

TIME: 14:28:44

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,674A

Input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

```
117 (1
       1611
                                                                                                            200
     162 Ala Ala Ala Asp Lys Ala Asp Giu Glu Asp Asp Asp Glu Glu Glu
                                                                                                                                                                                                                     220
                                                                                                            215
      164 Glu Asp Glu Glu Glu
     165
· 16' - 2210 - SEQ 1D NO: 4
       166 <211> LENGTH: 131
       160 <212 TYPE: PRT
     170 <213> ORGANISM: Homo sapiens
       17: <220> FEATURE:
       17: R2215 NAME/HEY: misc feature
      17; 3223> OTHER INFORMATION: Incyte 1D No: 1273778
      176 (400) SEQUENCE: 4
       177 Met Ser Glr. Val Thr Phe Ser Asp Val Ala ile Asp Phe Ser His
                                                                                                                                                                                                                         10
      17. Glu Glu Trp Ala Cys Leu Asp Ser Ala Gln Arg Asp Leu Tyr Lys
                                                                                                                                                                                                                                                                                                                                     20
                                                                                                                 20
      18::
       18: Asp Val Met Val Gir. Asn Tyr Glu Asn Leu Val Ser Val Gly Leu
                                                                                                                                                                                                                          40
       13.
                                                                                                                    35
       13: Ser Val Thr Lys Pro Tyr Val Ile Met Leu Leu Glu Asp Gly Lys
       18:
                             Thu Pro Trp Met Met Glu Lys Lys Leu Ser Lys Ala Tyr Pro Pile
        181
                                                                                                                                                                                                                           1.0
                                                                                                                  .= [
       17:00
                              Strong and the state of the sta
                                                                                                                                                                                                                                          with a like the series of the contraction of the co
         18 cA a Let The G.: His Cys Sor G.u Val Thr Siu Ile Phe Giu Leu
                                                                                                                                                                                                                     130
                                                                                                                                                                                                                                                                                                                               1 15
       19 \pm
       19: Ber Glu Leu Cys Wal Phe Trp Wal Leu His Phe Leu Ser Asn Ser
       19 Pro Ash Ser Thr Val Glu Ala Phe Phe Lys Lys
       194
       194 s. 10 sto 11 No: 5
       19% <212. TYPE: PRT
       19 + U213 - ORGANISM: Homo sapiens
       201 kk20 · FEATURE:
       20.1 KARI - NAME, KEY: misc feature
        POLICED REPORTED TO THE PROGRAMMENT OF THE PROPERTY OF THE PRO
       ्रा र ४ देशक र अस्थितामा तम: स
         . No Med Jer Dyn Arg Ers Jos Tyr Aladro dro in Thr iso Aradic
       201
                                                                                                                                                                                                                             10
        LOR Ala Throdh Mr. 120 Der Throles My fre Val Gry Syr Ash Ero
       2 (C. )
                                                                                                                    20
       victory and Hos Ind. Ala Tyr Add. Add. Tyr Agg Ind Gly. Ny Add. En
                              and the Arm to Arm our me has been
                                                                                                                                                                                                                          55
       z14 Lys Pro Fro Lys Pro Fro Asp Lys Fro Leu Met Fro Tyr Met Arq
      7 1 17
```

DATE: 02/11/2003

TIME: 14:28:44

RAW SEOUENCE LISTING

PATENT APPLICATION: US/09/701,674A

Input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

```
216 Tvr Ser Arg Lys Val Trp Asp Gin Val Lys Ala Ser Ash Fre AS
                      80
                                           85
 217
 218 Leu Lys Leu Trp Glu Ile Gly Lys Ile Le Gly Gly Met Trp Ang
                      95
                                          100
                                                                105
 219
 P20 Asp Leu Thr Asp Glu Glu Lys Gin Glu Tyr Leu Asn Glu Tyr Glu
                      .10
                                          1 15
 MAM Ala Glu Lys Ile Glu Tyr Ash Glu Ser Met Lys Ala Tyr His Ash
                      125
                                          130
· P14 Ser Pro Ala Tyr Leu Ala Tyr Ile Asn Ala Lys Ser Arg Ala Glu
                                           14.5
                      140
 .t. 6 Ala Ala Leu Glu Glu Glu Ser Arg Gln Arg Gln Ser Arg Met Glu
                                           160
                                                                16.5
                      155
 .h.s Lys Gly Glu Pro Tyr Met Ser Ile Gln Pro Ala Glu Asp Pro Asp
... 4
                      170
                                          175
 200 Asp Tyr Asp Asp Gly Phe Ser Met Lys His Thr Ala Thr Ala Asq
                                                                1:45
                      135
                                          190
 ded Phe Gln Arg Ash His Arg Leu Ile Ser Glu Ile Leu Ser Glu Ser
                      200
                                           205
 3:4 Val Val Pro Asp Val Arg Ser Val Val Thr Thr Ala Arg Met Gin
 200 Val Lea Lys Arg Glr Val Glr Ser Leu Met Val His Glr Arg Lyw
                                          235
                     230
                      er. Leur War I No Clarillo Argodic Clariflu hys
      . 1 " " N' 5 ( 19)
     lws Arr Lvs Phe Law Gru Ser Thr Asplict The Ash Ash Gid Law
                     Zoû
                                           763
     Lys Arg Leu Cys Gly Leu Lys Val Gru Val Asp Mot Gru Lys Ila
                                           583
 1
 144 Ala Ala Giu Ile Ala Gin Ala Giu Giu Gin Ala Arg Lys Arg G.n
                      290
                                           295
 👯 Glu Glu Arg Glu Lys Glu Ala Ala Glu Gin Ala Glu Arg Ser
                                                                Gin
                      5.15
 24° Ser Ser Ile Val Pro Glu Glu Glu Gln Ala Ala Asn Lys Gly
                      320
                                           325
                                                                330
 240
 201 Sta Lys Lys Asp Asp Glu Asa Ile Pro Met Glu Thr Glu Glu Thr
                                                                341.
 25.1
                      335
                                           340
     His Lou Glu Gan Tar Thr Glu der Gla Gla Asa Gly Gla Glu Gly
                      21.6
                                           355
 that the the The Fe Git Applye City Sor City Gen Gita Gity Val Asp
                      Shir
     Jer Met Ala Gid Glo Gly Thr Ser Asp Ser Asn Thr Gly Ser Glu
  Sty
                      38U
     War Ash Sor Ala Thr Van Gir Glu Fro Fro Thr Asp Fro Ile Fro
                      2/15
  1. 1
     The Day Is a fire Type
 263 ≥2105 SEQ ID NO: 6
 264 - 2115 LENGTH: 226
```

265 - 2125 TYLE: FRT

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/701,674A

DATE: 02/11/2003 TIME: 14:28:45

Input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pes. 218,223
Leq#:35; N Pes. 6,61,882,883,884,885,886,887,888,889,890,891,892,893,894
Seq#:35; N Pes. 895,896,897,898,899,900,901,902,903,904,905,906,907,908,912
Seq#:35; N Pes. 914,916,920,922,929,932,964,967,971,975,986,1000,1028,1033
Seq#:35; N Pes. 1039,1052,1053,1063,1065,1071,1080,1090,1100,1102,1110,1113
Seq#:35; N Pes. 1123,1128,1134,1139,1142,1143,1144,1153,1168,1164,1169,1177
Seq#:35; N Pes. 1180,1181,1182,1184,1189,1191,1192,1211,1224,1239,1246,1247
Seq#:35; N Pes. 1243,1263,1266,1274,1284,1291,1314,1321,1322,1339,1341,1343
Seq#:35; N Pes. 1347,1351,1353,1359,1362,1363,1364
Seq#:37; N Pes. 684,699,740,755,757,776,796,805,811,824,850,856
Seq#:42; N Pes. 2223
Seq#:45; N Pes. 61,63,69,92,100,151,165,179,182,198,218
Seq#:51; N Pes. 1957
Seq#:59; N Pes. 1203,1204